

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

01-055

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

09/744779

INTERNATIONAL APPLICATION NO.
PCT/IL99/00434INTERNATIONAL FILING DATE
05 August 1999PRIORITY DATE CLAIMED
07 August 1998

TITLE OF INVENTION

PROTECTIVE UNDERGARMENT

APPLICANT(S) FOR DO/EO/US
GILOH, Tamar

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

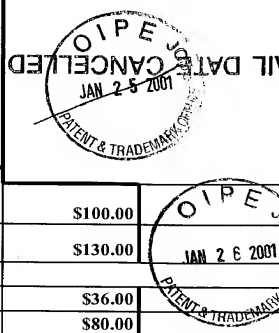
1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ A copy of the International Search Report (PCT/ISA/210).
8. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☒ Certificate of Mailing by Express Mail
20. ☒ Other items or information.

Return Receipt Postcard

U.S. APPLICATION NO. 09/744779	INTERNATIONAL APPLICATION NO. PCT/IL99/00434	ATTORNEY'S DOCKET NUMBER 01-055
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21. The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) : <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$970.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$840.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$690.00 <input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00 <input checked="" type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$96.00	CALCULATIONS PTO USE ONLY <div style="text-align: center;">  </div>
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ENTER APPROPRIATE BASIC FEE AMOUNT =		\$100.00
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)). <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30		\$130.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	x	TOTAL
Total claims	22 - 20 =	2	\$18.00	x	\$36.00
Independent claims	4 - 3 =	1	\$80.00	x	\$80.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL OF ABOVE CALCULATIONS =					\$346.00
Reduction of 1/2 for filing by small entity, if applicable. Applicant claims <input checked="" type="checkbox"/> small entity status.					\$173.00
SUBTOTAL =					\$173.00
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)). <input type="checkbox"/> 20 <input type="checkbox"/> 30					\$0.00
TOTAL NATIONAL FEE =					\$173.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>					\$0.00
TOTAL FEES ENCLOSED =					\$173.00
					Amount to be refunded \$ charged \$

☒ A check in the amount of **\$173.00** to cover the above fees is enclosed.

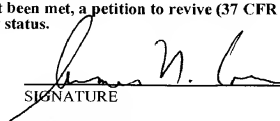
☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.
 A duplicate copy of this sheet is enclosed.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **13-2490** A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

PENN, Amir N.
McDonnell Boenhen Hulbert & Berghoff
300 South Wacker Drive, Suite 3200
Chicago, Illinois 60606
United States of America


 SIGNATURE
Amir N. Penn
 NAME
40,767
 REGISTRATION NUMBER
26 January 2001
 DATE

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 01-055)

In re Application of:)
)
Giloh)
) Group Art Unit: N/A
Serial No.: 09/744,779)
)
) Examiner: N/A
Filed: January 26, 2001)
)
)
For: PROTECTIVE UNDERGARMENT)

PRELIMINARY AMENDMENT

Commissioner for Patents
 Washington, D.C. 20231

Dear Sir:

IN THE CLAIMS

Please cancel claims 1-22 without prejudice. Please add new claims 23-40 as follows. A marked up version of the amended claims, to show all the changes, is attached hereto on pages separate from the amendment in accordance with 37 CFR 1.121(c)(1)(ii).

23. (New claim) Protective undergarment comprising:
 an integrally formed undergarment body of a liquid impermeable material having an inner surface with a first portion and a second portion;
 an absorptive device associated with the first portion of the integrally formed undergarment body; and
 fibres affixed to at least a part of the inner surface of the second portion of the integrally formed undergarment body.
24. (New claim) A protective undergarment according to claim 23, wherein the fibres are affixed to the inner surface of the integrally formed undergarment body except for a section of the undergarment body associated with the absorptive device and proximate to the portion of the undergarment body associated with the absorptive device.
25. (New claim) A protective undergarment according to claim 23, wherein said second portion is formed with multiple perforations to permit passage of perspiration

therethrough and to enhance the undergarment stretchiness to fit the undergarment an individual's body shape.

26. (New claim) A protective undergarment according to claim 25, wherein said first portion is not substantially perforated, so as to prevent passage of body fluids therethrough.

27. (New claim) A protective undergarment according to claim 23, wherein the integrally formed undergarment body has an outer surface, and further comprising fibres affixed to at least a portion of the outer surface of the integrally formed undergarment body.

28. (New claim) A protective undergarment according to claim 23, wherein the liquid impermeable material is rubber.

29. (New claim) A protective undergarment according to claim 23, wherein the fibres are cotton.

30. (New claim) A protective undergarment according to claim 23, wherein the first portion extends beyond said absorptive device.

31. (New claim) A protective undergarment according to claim 23, wherein the undergarment is a body-tight seamless undergarment, the undergarment attaches to the user body as a result of its elasticity without any seams.

32. (New claim) A protective undergarment according to claim 24, wherein the undergarment is a body-tight seamless undergarment, the undergarment attaches to the user body as a result of its elasticity without any seams.

33. (New claim) A protective undergarment according to claim 23, wherein said undergarment is underpants.

34. (New claim) A protective undergarment according to claim 23, wherein said undergarment is brassiere.

35. (New claim) A method of manufacture of a protective undergarment comprising the steps of:
forming an undergarment body of a liquid impermeable material, the undergarment body having an inner surface with a first portion and a second portion;
associating an absorptive device with the first portion of the integrally formed undergarment body; and
affixing fibres to at least a part the second portion.

36. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the associating of the absorptive device with the first portion includes contacting the absorptive device while the liquid impermeable material is drying.

37. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the fibres are cotton.

38. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the affixing of fibres includes spraying an adhesive to the part of the second portion and spraying fibres to the part of the second portion.

39. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the affixing of fibres comprises affixed fibres to the inner surface of the undergarment body except for a section of the undergarment body associated with the absorptive device and proximate to the portion of the undergarment body associated with the absorptive device.

40. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the undergarment body has an outer surface, and further comprising affixing fibres to a part of the outer surface of the undergarment body.

REMARKS

If for any reason, the application is not considered to be in condition for allowance on the next Office Action and an interview would be helpful to resolve any remaining issues, the Examiner is requested to contact the undersigned attorney at (312) 913-0001.

Respectfully submitted,
McDonnell Bochen Hulbert & Berghoff

Dated: May 10, 2002

By: 

Amir N. Penn
Reg. No. 40,767
Attorney for Applicant

APPENDIX UNDER 37 CFR 1.121(c)

23. (New claim) Protective undergarment comprising:
 - an integrally formed undergarment body of a liquid impermeable material having an inner surface with a first portion and a second portion;
 - an absorptive device associated with the first portion of the integrally formed undergarment body; and
 - fibres affixed to at least a part of the inner surface of the second portion of the integrally formed undergarment body.
24. (New claim) A protective undergarment according to claim 23, wherein the fibres are affixed to the inner surface of the integrally formed undergarment body except for a section of the undergarment body associated with the absorptive device and proximate to the portion of the undergarment body associated with the absorptive device.
25. (New claim) A protective undergarment according to claim 23, wherein said second portion is formed with multiple perforations to permit passage of perspiration therethrough and to enhance the undergarment stretchiness to fit the undergarment an individual's body shape.
26. (New claim) A protective undergarment according to claim 25, wherein said first portion is not substantially perforated, so as to prevent passage of body fluids therethrough.
27. (New claim) A protective undergarment according to claim 23, wherein the integrally formed undergarment body has an outer surface, and
 - further comprising fibres affixed to at least a portion of the outer surface of the integrally formed undergarment body.
28. (New claim) A protective undergarment according to claim 23, wherein the liquid impermeable material is rubber.
29. (New claim) A protective undergarment according to claim 23, wherein the fibres are cotton.
30. (New claim) A protective undergarment according to claim 23, wherein the first portion extends beyond said absorptive device.
31. (New claim) A protective undergarment according to claim 23, wherein the undergarment is a body-tight seamless undergarment, the undergarment attaches to the user body as a result of its elasticity without any seams.
32. (New claim) A protective undergarment according to claim 24, wherein the undergarment is a body-tight seamless undergarment, the undergarment attaches to the user body as a result of its elasticity without any seams.
33. (New claim) A protective undergarment according to claim 23, wherein said undergarment is underpants.

34. (New claim) A protective undergarment according to claim 23, wherein said undergarment is brassiere.
35. (New claim) A method of manufacture of a protective undergarment comprising the steps of:
forming an undergarment body of a liquid impermeable material, the undergarment body having an inner surface with a first portion and a second portion;
associating an absorptive device with the first portion of the integrally formed undergarment body; and
affixing fibres to at least a part the second portion.
36. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the associating of the absorptive device with the first portion includes contacting the absorptive device while the liquid impermeable material is drying.
37. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the fibres are cotton.
38. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the affixing of fibres includes spraying an adhesive to the part of the second portion and spraying fibres to the part of the second portion.
39. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the affixing of fibres comprises affixed fibres to the inner surface of the undergarment body except for a section of the undergarment body associated with the absorptive device and proximate to the portion of the undergarment body associated with the absorptive device.
40. (New claim) A method of manufacture of a protective undergarment according to claim 35, wherein the undergarment body has an outer surface, and further comprising affixing fibres to a part of the outer surface of the undergarment body.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 01-055)

In re Application of:)
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Giloh)
) Group Art Unit: N/A
Serial No.: 09/744,779)
)
) Examiner: N/A
Filed: January 26, 2001)
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)
For: PROTECTIVE UNDERGARMENT)

SUPPLEMENTAL PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

IN THE CLAIMS

Please amend claims 25, 31, and 32 as follows. A marked up version of the amended claims, to show all the changes, is attached hereto on pages separate from the amendment in accordance with 37 CFR 1.121(c)(1)(ii).

- 25. (Amended) A protective undergarment according to claim 23, wherein said second portion is formed with multiple perforations to permit passage of perspiration therethrough.
- 31. (Amended) A protective undergarment according to claim 23, wherein the undergarment is a body-tight seamless undergarment.
- 32. (Amended) A protective undergarment according to claim 24, wherein the undergarment is a body-tight seamless undergarment.

REMARKS

If for any reason, the application is not considered to be in condition for allowance on the next Office Action and an interview would be helpful to resolve any remaining issues, the Examiner is requested to contact the undersigned attorney at (312) 913-0001.

Respectfully submitted,
McDonnell Boehnen Hulbert & Berghoff

Dated: July 1, 2002

By: Amir N. Penn

Amir N. Penn
Reg. No. 40,767
Attorney for Applicant

APPENDIX UNDER 37 CFR 1.121(c)

25. (Amended) A protective undergarment according to claim 23, wherein said second portion is formed with multiple perforations to permit passage of perspiration therethrough[and to enhance the undergarment stretchiness to fit the undergarment an individual's body shape].

31. (Amended) A protective undergarment according to claim 23, wherein the undergarment is a body-tight seamless undergarment[, the undergarment attaches to the user body as a result of its elasticity without any seams].

32. (Amended) A protective undergarment according to claim 24, wherein the undergarment is a body-tight seamless undergarment[, the undergarment attaches to the user body as a result of its elasticity without any seams].

PROTECTIVE UNDERGARMENTFIELD OF THE INVENTION

The present invention relates to protective undergarments generally as well as to methods for manufacture thereof.

BACKGROUND OF THE INVENTION

Various types of protective undergarments are known in the patent literature. The following patents and patent applications and the references cited therein are believed to represent the state of the art: U.S. Patent 5,098,419; PCT Published Patent Application WO 96/36248 and European Patent 327,823.

SUMMARY OF THE INVENTION

The present invention seeks to provide a protective undergarment which is generally lighter and more comfortable than conventional protective undergarments and which can be manufactured in large quantities at relatively low cost.

There is thus provided in accordance with a preferred embodiment of the present invention a protective undergarment including an integrally formed undergarment body formed of a liquid impermeable material, and an absorptive pad associated with the integrally formed undergarment body.

Preferably, the undergarment body includes a first portion which is formed with multiple perforations to permit passage of perspiration therethrough, and a second portion which is substantially not perforated, so as to prevent passage of body fluids therethrough.

In accordance with a preferred embodiment of the present invention the absorptive pad is associated with the undergarment body at the second portion.

Preferably, the second portion extends beyond the absorptive pad.

There is additionally provided in accordance with a preferred embodiment of the present invention a protective undergarment comprising an integrally formed undergarment body formed of a liquid impermeable material, the undergarment body including a first portion which is formed with multiple perforations to permit passage of perspiration therethrough, and a second portion which is substantially not perforated, so as to prevent passage of body fluids therethrough.

Preferably, the liquid impermeable material is latex.

Alternatively, the liquid impermeable material is silicone rubber.

In accordance with a preferred embodiment of the present invention, the undergarment body has a thickness of approximately 10 microns.

Preferably, the protective garment also comprises an absorbent pad fixed to the undergarment body.

The protective undergarment may be a brassiere, underpants or any other suitable garment.

5 The protective undergarment may have fibers adhered to at least one surface of the undergarment body.

In accordance with one embodiment of the present invention, the absorbent pad includes a portion extending downward from the crotch along the thigh.

10 There is additionally provided in accordance with a preferred embodiment of the present invention a method of manufacture of protective undergarments comprising the steps of forming an undergarment body of a liquid impermeable material, and forming multiple perforations on a first portion of the undergarment body to permit passage of perspiration therethrough.

15 Preferably, the step of associating an absorbent pad with a second portion of the undergarment body.

There is also provided in accordance with a preferred embodiment of the present invention a method of manufacture of protective undergarments comprising the steps of forming an undergarment body of a liquid impermeable material, and fixedly associating an absorbent pad with the undergarment body.

20 Preferably, the associating step comprising forming the undergarment body over a portion of the pad.

Preferably, the method also includes the step of forming the undergarment body over an absorbent pad, so as to fix the pad to the undergarment body.

25 Additionally in accordance with a preferred embodiment of the present invention, the method includes the step of adhering cotton fibers to at least one surface of the undergarment body.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be understood and appreciated more fully from the following detailed description, taken in conjunction with the drawings in which:

30 Fig. 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H and 1I are illustrations of a method for producing protective undergarments in accordance with a preferred embodiment of the present invention; and

Fig. 2 is a simplified illustration of protective undergarments produced generally by the method of Figs. 1A - 1F in accordance with a preferred embodiment of the present invention.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

Reference is now made to Fig. 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H and 1I are simplified illustrations of a method for producing protective undergarments in accordance with a preferred embodiment of the present invention. The invention is described hereinbelow with reference to Figs. 1A - 1I, with specific reference to underpants, it being appreciated that the invention applies equally to any other suitable undergarment.

As seen in Fig. 1A, a three dimensional garment form 10 is provided on which an array 12 of protrusions 14, such as needles, is formed in the general shape of underpants to be formed. The crotch area 16 of the underpants is preferably not formed with protrusions 14. The remainder of the form 10 is preferably coated with a non-adhesion substance, such as TEFLON R.

As shown in Fig. 1B, garment form 10 is preferably dipped in a liquid 18, such as latex or silicone, which when allowed to dry, forms a stretchable, light weight garment 18 over array 12 and crotch area 16. It may be appreciated that the provision of protrusions 14 causes the garment 18 to be perforated except at crotch area 16. Thus the garment 18 is "breathable" except at the crotch area 16, where it is liquid impermeable.

In accordance with a preferred embodiment of the present invention, as illustrated in Fig. 1C, an absorptive pad 20 is associated with the light weight garment 18 at the crotch area 16. It may be associated by the use of an adhesive, but is preferably attached to the remainder of garment 18 by virtue of the fact that the liquid is allowed to dry on the form 10 in engagement with the absorptive pad 20.

Prior to removal of the garment 18 from the form 10, the exterior surface of the garment on the form 10, which will eventually be turned inside-out to form the interior surface, is preferably sprayed with adhesive 22, as shown in Fig. 1D and thereafter with cotton fibers 24 or any other suitable material, as indicated in Fig. 1E, thereby to provide a comfortable and non-stick skin engaging surface. Preferably pad 20 is covered during the steps of Figs. 1D and 1E with a cover 26, which extends somewhat beyond the pad, so as to prevent liquid migration from the pad to the cotton fibers.

The resulting garment 30 may then be removed from the form 10, as seen in Fig. 1F and turned inside out. The outer surface of garment 30 may be coated or otherwise covered with cotton fiber or any other suitable material and finished in an appropriate manner.

5 The completed garment 40, as seen in Fig. 1G, is preferably extremely light weight, low cost, stretchable, underpants, which is perforated generally except at the crotch area and which is preferably integrally formed with an internal absorptive pad at the crotch area. The garment is preferably formed of an elastic material, such as latex or silicone and has a thickness of less than 10 microns. In accordance with a preferred embodiment of the present invention, as seen in Fig. 1H, a tear region 42 may be incorporated in the garment, such as at a
10 side thereof. This enables ease of removal of the garment, by tearing it at region 42. Once removed the torn, worn garment may be disposed of, as illustrated in Fig. 1I.

As can be seen from Fig. 2, the garment may be underpants 50, a brassiere 60, or any other suitable garment. It is noted that the pad 62 of the underpants 50 may have a portion which extends downwardly along the wearer's legs.

15 It will be appreciated by persons skilled in the art that the present invention is not limited by what has been particularly shown and described hereinabove. Rather the scope of the present invention includes variations and modifications of the various features described in the specification and shown in the drawings which may occur to a person of ordinary skill in the art upon reading the foregoing description and which are not in the prior art.

5
C L A I M S

What is claimed is:

1. A protective undergarment comprising:
an integrally formed undergarment body formed of a liquid impermeable
5 material; and
an absorptive pad associated with the integrally formed undergarment body.
2. A protective undergarment according to claim 1 wherein said undergarment
body includes:
a first portion which is formed with multiple perforations to permit passage of
10 perspiration therethrough; and
a second portion which is substantially not perforated, so as to prevent passage
of body fluids therethrough.
3. A protective undergarment according to claim 2 wherein said absorptive pad is
associated with said undergarment body at said second portion.
- 15 4. A protective undergarment according to claim 3 wherein said second portion
extends beyond said absorptive pad.
5. A protective undergarment comprising an integrally formed undergarment body
formed of a liquid impermeable material, the undergarment body including:
a first portion which is formed with multiple perforations to permit passage of
20 perspiration therethrough; and
a second portion which is substantially not perforated, so as to prevent passage
of body fluids therethrough.
6. A protective undergarment according to claim 1 wherein said liquid
impermeable material is latex.
- 25 7. A protective undergarment according to claim 1 wherein said liquid
impermeable material is silicone rubber.
8. A protective undergarment according to claim 1 wherein said undergarment
body has a thickness of approximately 10 microns.
9. A protective undergarment according to claim 5 and also comprising an
30 absorbent pad fixed to the undergarment body.
10. A protective undergarment according to claim 1 wherein said undergarment
body is a brassiere.

11. A protective undergarment according to claim 1 wherein said undergarment body is underpants.
12. A protective undergarment according to claim 1 and also comprising fibers adhered to at least one surface of the undergarment body.
- 5 13. A protective undergarment according to claim 1 wherein said absorbent pad includes a portion extending downward from the crotch along the thigh.
14. A method of manufacture of protective undergarments comprising the steps of:
forming an undergarment body of a liquid impermeable material; and
forming multiple perforations on a first portion of the undergarment body to
10 permit passage of perspiration therethrough.
15. A method of manufacture according to claim 14 and including the step of associating an absorbent pad with a second portion of said undergarment body.
16. A method of manufacture of protective undergarments comprising the steps of:
forming an undergarment body of a liquid impermeable material; and
15 fixedly associating an absorbent pad with said undergarment body.
17. A method according to claim 15 wherein said associating step comprising forming said undergarment body over a portion of said pad.
18. A method of manufacture of protective undergarments according to claim 15 wherein said liquid impermeable material is latex.
- 20 19. A method of manufacture of protective undergarments according to claim 15 wherein said liquid impermeable material is silicon rubber.
20. A method of manufacture of protective undergarments according to claim 14 wherein said undergarment body has a thickness of approximately 10 microns.
21. A method of manufacture of protective undergarments according to claim 14
25 and also comprising the step of forming the undergarment body over an absorbent pad, so as to fix the pad to the undergarment body.
22. A method of manufacture of protective undergarments according to claim 14 and also comprising adhering cotton fibers to at least one surface of the undergarment body.

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : A41B	A2	(11) International Publication Number: WO 00/07468 (43) International Publication Date: 17 February 2000 (17.02.00)
(21) International Application Number: PCT/IL99/00434 (22) International Filing Date: 5 August 1999 (05.08.99) (30) Priority Data: 125695 7 August 1998 (07.08.98) IL (71)(72) Applicant and Inventor: GILOH, Tamar [IL/IL]; Hahis- tadrut Street 19A, 45270 Hod Hasharon (IL). (74) Agents: SANFORD, T., Colb et al.; Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot (IL).		(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: PROTECTIVE UNDERGARMENT (57) Abstract A protective undergarment including an integrally formed undergarment body formed of a liquid impermeable material, and an absorptive pad associated with the integrally formed undergarment body.		

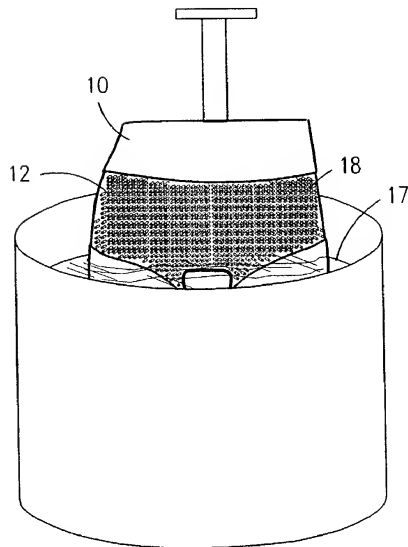
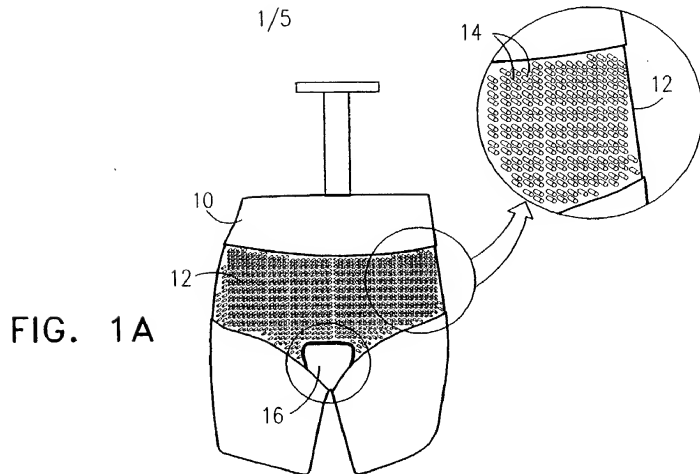


FIG. 1B

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FIG. 1C

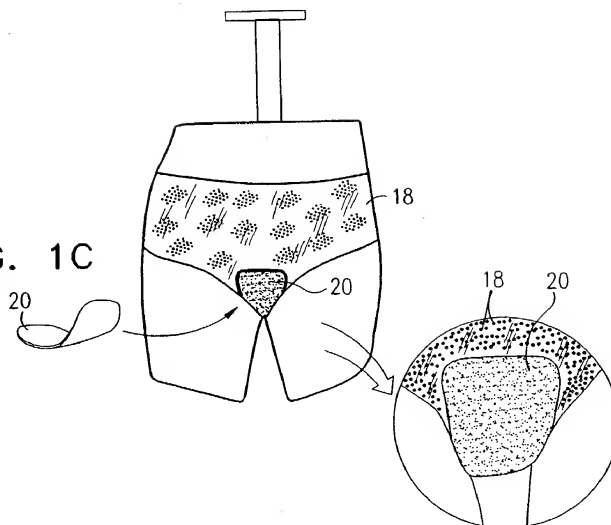
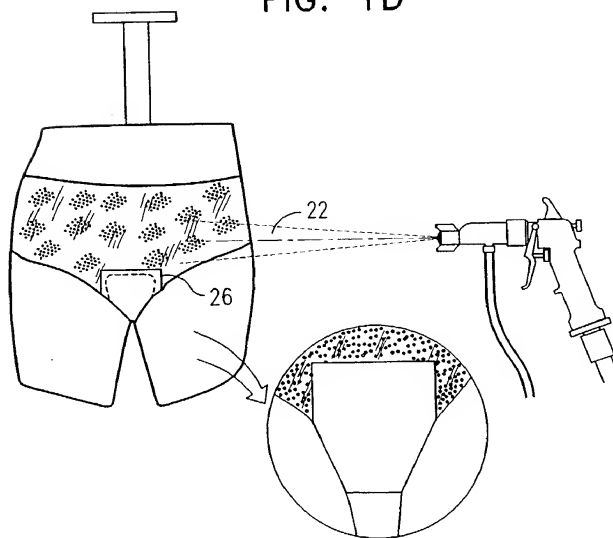


FIG. 1D



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FIG. 1E

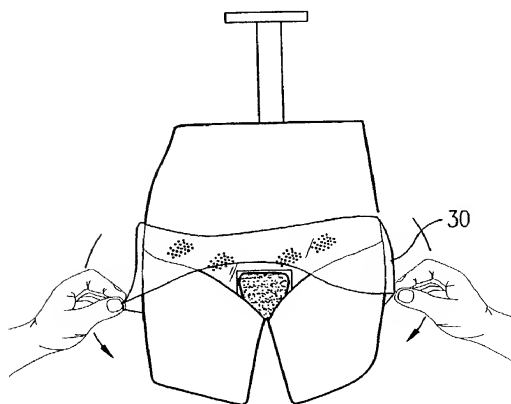
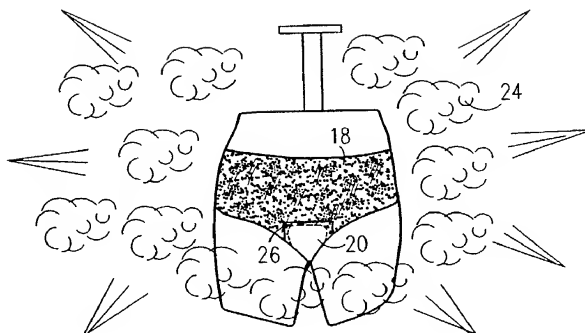


FIG. 1F

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FIG. 1G

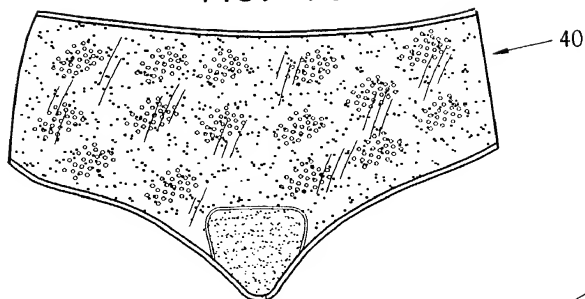


FIG. 1H

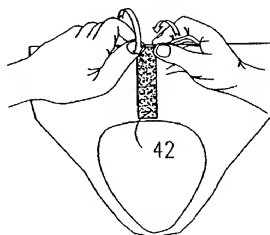


FIG. 1I



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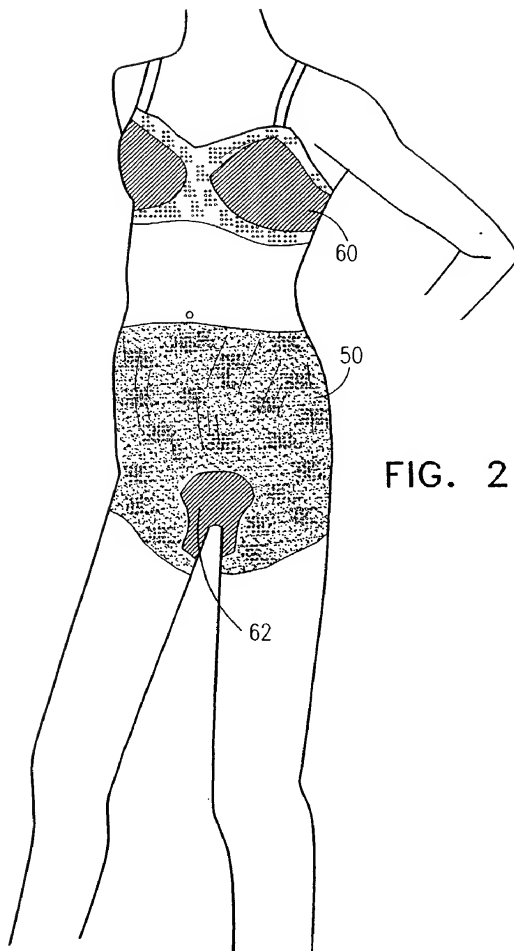


FIG. 2

13 Recd PCT/PTO U.S. JUN 2002 0602

09/744779



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. MBHB 01-055)

In re Application of:

GILOH

Serial No.: 09/744,779

Filed: January 26, 2001

For: PROTECTIVE UNDERGARMENT

Group Art Unit: N/A

Examiner: N/A

Commissioner for Patents
Washington, DC 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

As assignee of record of the entire interest of the above identified

☒ application

☐ patent

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

The undersigned hereby appoints all of the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and directs that all correspondence be addressed to that Customer Number:

Customer Number: 020306
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EVIDENCE AND CERTIFICATION OF CHAIN OF TITLE☒ Recorded in PTO on 9/28/2001Reel 012206
Frame 0973☐ Recorded herewith.**ASSIGNEE CERTIFICATION**

In accordance with 37 C.F.R. § 3.73 the assignee hereby certifies that the evidentiary documents with respect to its ownership have been reviewed and that, to the best of assignee's knowledge and belief, title is in the assignee seeking to take this action.

Date: 8.5.02Signature J. V.Name: TAMAR GILOH
Title: MD

Case No.: MSB01-055

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, past office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Protective Undergarment

the specification of which is attached hereto unless the following space is checked:

☒ was filed on January 26, 2001 as United States Application Serial Number 09/745,779.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 363(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Number	Country	Day/Month/Year Filed
1. 125695	Israel	08/August/1998
2.		

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Number	Filing Date
1.	
2.	

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application Number	Filing Date	Status: patented, pending, abandoned
1. PCT/IL99/00434	05/August/1999	Pending
2.		

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020906

Principal attorney or agent:

Amir N. Pano

Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Date: 8.5.02

Inventor's signature: 6.4

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